

CANNING.001CP2

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

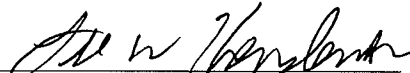
Applicant : Francis X. Canning  
Appl. No. : 10/619,796  
Filed : July 15, 2003  
For : SPARSE AND EFFICIENT  
BLOCK FACTORIZATION FOR  
INTERACTION DATA  
Examiner : Herng Der Day  
Group Art Unit : 2128

**CERTIFICATE OF EFS WEB  
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I hereby certify that this correspondence, and any other attachment noted on the automated Acknowledgement Receipt, is being transmitted from within the Pacific Time zone to the Commissioner for Patents via the EFS Web server on:

August 20, 2008

(Date)

  
Lee W. Henderson Ph.D., Reg. No. 41,830

**AMENDMENTS AND RESPONSE TO OFFICE ACTION DATED JUNE 20, 2008**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action dated June 20, 2008, Applicant respectfully submits the following amendments and comments in connection with the above-captioned application.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 9 of this paper.